Table A15. Equations for earned degrees conferred

Dependent Variable				Е	quation		\mathbb{R}^2	Durbin-Watson statistic ¹	Estimation technique ²	Rho	Time period
Associate's degrees Men	ASSOCM	=	106,844	+	56.6UGFT2M (1.5)	+ 39.2UGPT2M (2.2)	0.83	1.6	AR1	0.73 (4.6)	1970–71 to 2000–01
Associate's degrees Women	ASSOCW	=	93,045	+	180.6UGFT2W (5.9)	,	0.99	1.4	AR1	0.98 (47.5)	1970–71 to 2000–01
Bachelor's degrees Men	BACHM	=	218,515	-	10.4P1824M (-3.3)	+ 180.6UGFT4M (6.4)	0.89	1.7	AR1	0.64 (4.2)	1970–71 to 2000–01
Bachelor's degrees Women	BACHW	=	190,194	-	15.7P1824W (-2.9)	+ 246.8UGFT4W (17.4)	0.99	1.2	AR1	0.81 (6.8)	1970–71 to 2000–01
Master's degrees Men	MASTM	=	35,513	+	405.9GFTM (5.4)		0.95	1.3	AR1	0.90 (12.3)	1970–71 to 2000–01
Master's degrees Women	MASTW	=	36,718	+	544.3GFTW (15.3)		0.99	1.1	AR1	0.92 (14.6)	1972–73 to 2000–01
Doctor's degrees Men	DOCM	=	19,749	+	19.3GFTM1 (1.1)	- 12.8RUC (-0.9)	0.89	1.1	AR1	0.96 (21.6)	1970–71 to 2000–01
Doctor's degrees Women	DOCW	=	- 1,582	+	0.4P3544W (2.6)	+ 31.2GFTW (5.4)	0.99	2.2	AR1	0.72 (3.9)	1972–73 to 2000–01
First-professional degrees Men	FPROM	=	10,292	+	228.7PFTM (7.0)		0.88	1.9	AR1	0.51 (2.6)	1970–71 to 2000–01
First-professional degrees Women	FPROW	=	- 1,156	+	284.2FPFTW (24.0)	+ 227.1FPPTW (2.2)	0.99	1.5	OLS	†	1971–72 to 2000–01

[†]Not applicable.

Where:

ASSOCM = Number of associate's degrees awarded to men

ASSOCW = Number of associate's degrees awarded to women

BACHM = Number of bachelor's degress awarded to men BACHW = Number of bachelor's degress awarded to women

MASTM = Number of master's degrees awarded to men

MASTW = Number of master's degrees awarded to women

DOCM = Number of doctor's degress awarded to men

DOCW = Number of doctor's degress awarded to women

FPROM = Number of first-professional degrees awarded to men

FPROW = Number of first-professional degrees awarded to women

UGFT2M = Full-time male undergraduate enrollment in 2-year institutions, lagged 2 years, in thousands

UGPT2M = Part-time male undergraduate enrollment in 2-year institutions, lagged 2 years, in thousands

UGFT2W = Full-time female undergraduate enrollment in 2-year institutions, lagged 2 years, in thousands

P1824M = Population of 18- to 24-year-old men, in thousands

P1824W = Population of 18- to 24-year-old women, in thousands

UGFT4M = Full-time male undergraduate enrollment in 4-year institutions, lagged 2 years, in thousands

UGFT4W = Full-time female undergraduate enrollment in 4-year institutions, lagged 3 years, in thousands

GFTM = Full-time male graduate enrollment, in thousand

GFTW = Full-time female graduate enrollment, in thousand P3544W = Population of 35- to 44-year-old women, in thousands

GFTM1 = Full-time male graduate enrollment lagged 1 year, in thousand

GFTW = Full-time female graduate enrollment, in thousand

RUC = Unemployment rate

FPFTM = Full-time male first-professional enrollment lagged 2 years, in thousands

FPFTW = Full-time female first-professional enrollment lagged 1 year, in thousands

FPPTW = Part-time female first-professional enrollment lagged 2 years, in thousands

NOTE: R² indicates the coefficient of determination. Rho measures the correlation between errors in time period t and time period t minus 1. Numbers in parentheses

SOURCE: U.S. Department of Education, National Center for Education Statistics, Earned Degrees Conferred Model.

(This table was prepared July 2003.)

¹For an explanation of the Durbin-Watson statistic, see J. Johnston, Econometric Methods, New York: McGraw-Hill, 1972, pages 251–252.

²AR1 indicates an estimation procedure for correcting the problem of first-order autocorrelation. OLS indicates Ordinary Least Squares. For a general discussion of the problem of autocorrelation, and the method used to forecast in the presence of autocorrelation, see G. Judge, W. Hill, R. Griffiths, H. Lutkepohl, and T. Lee, The Theory and Practice of Econometrics, New York: John Wiley and Sons, 1985, pages 315-318.